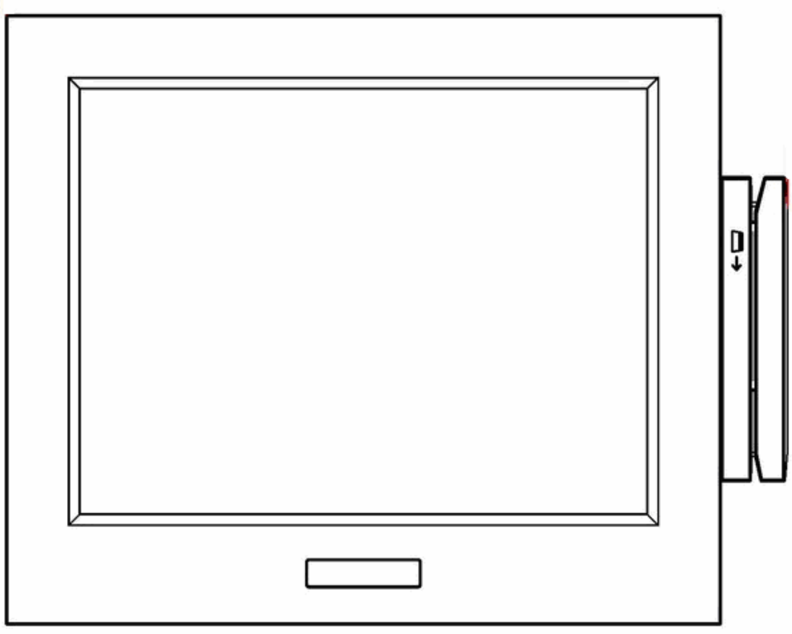
User Manual

February 2008   Revision 1.2

Kiosk System

Panel PC Series



Safety

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions carefully. Keep these instructions for future reference.
- Follow all warnings and instructions marked on the product.
- Do not use this product near water.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- The socket outlet should be installed near the equipment and should be easily accessible.

PSE Mark

This device complies with the PSE rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.

Caution on Lithium Batteries

Danger will explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer’s instructions.

Table of Contents

1. Accessories



a. Power Cord (1)



b. RJ45-DB9 Converter Cable (4)



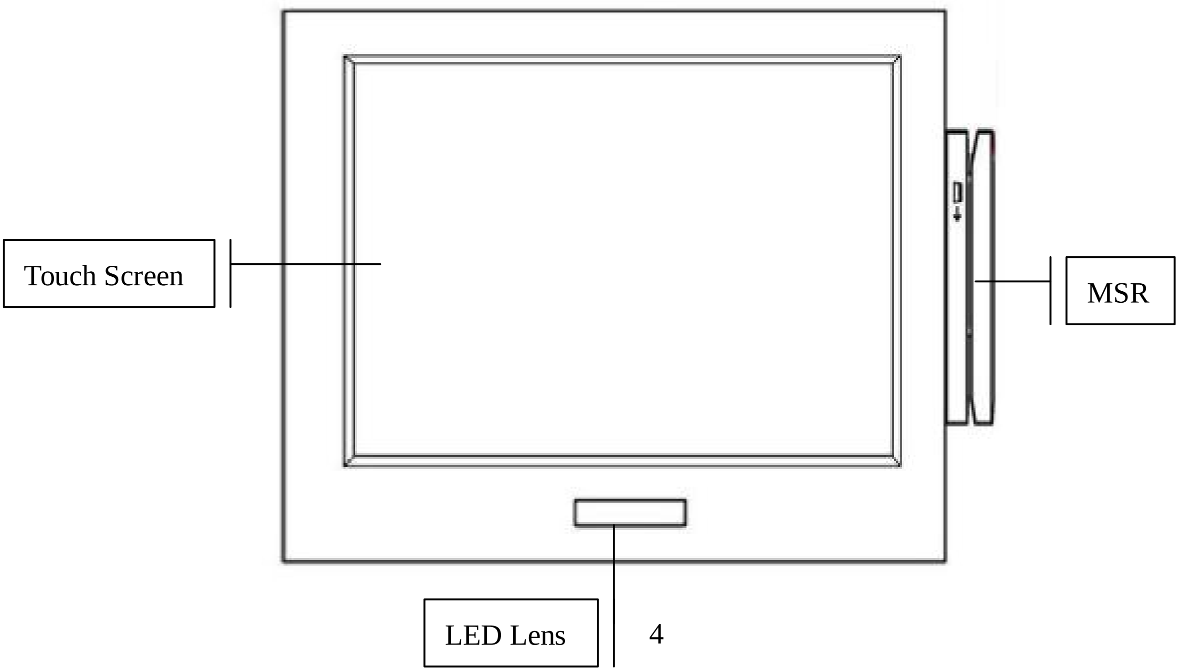
c. Driver CD (1)



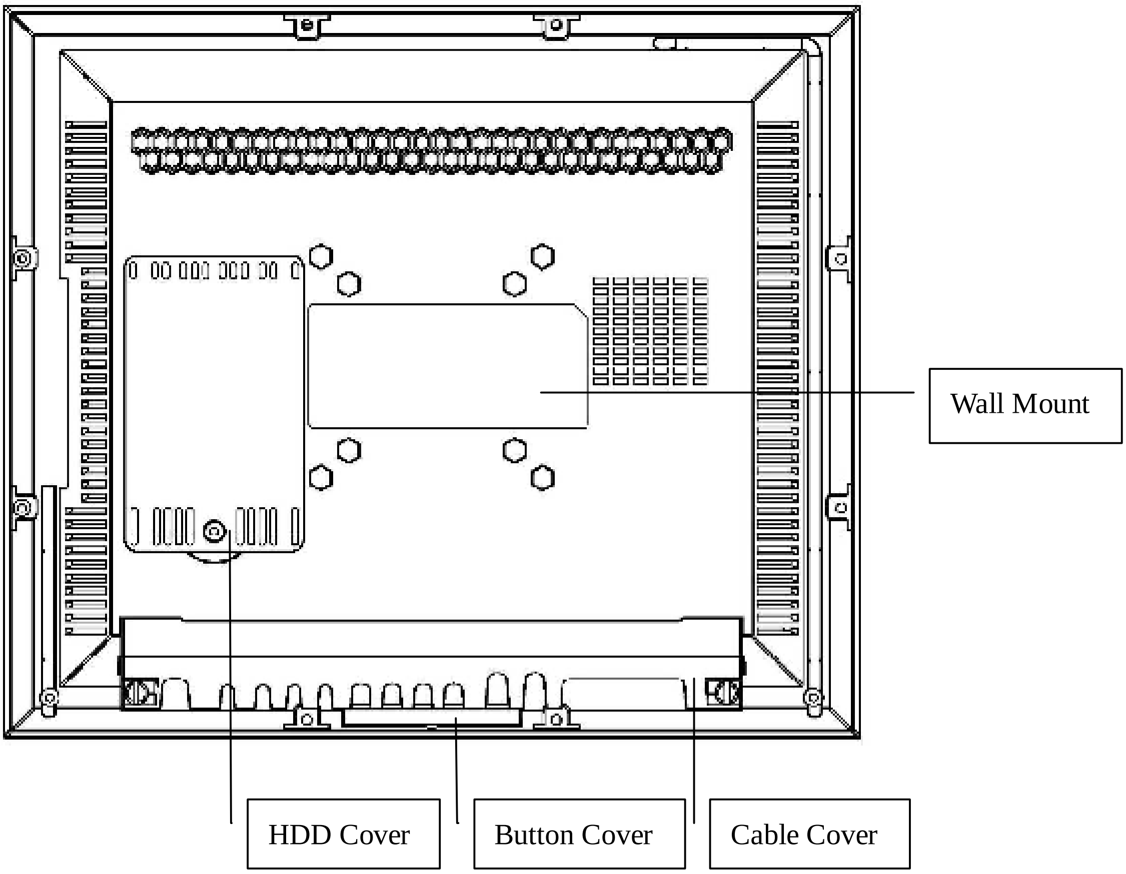
d. Power Brick (1)

2. Components

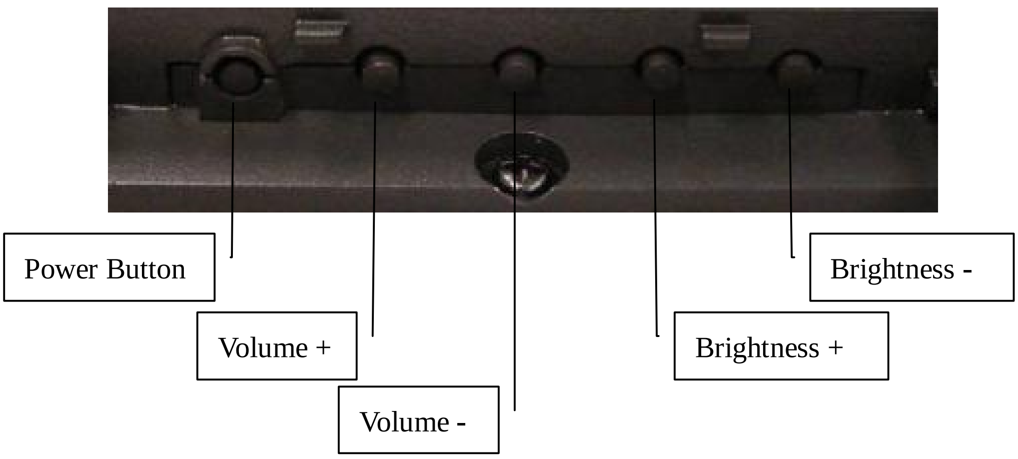
2.1. Front View



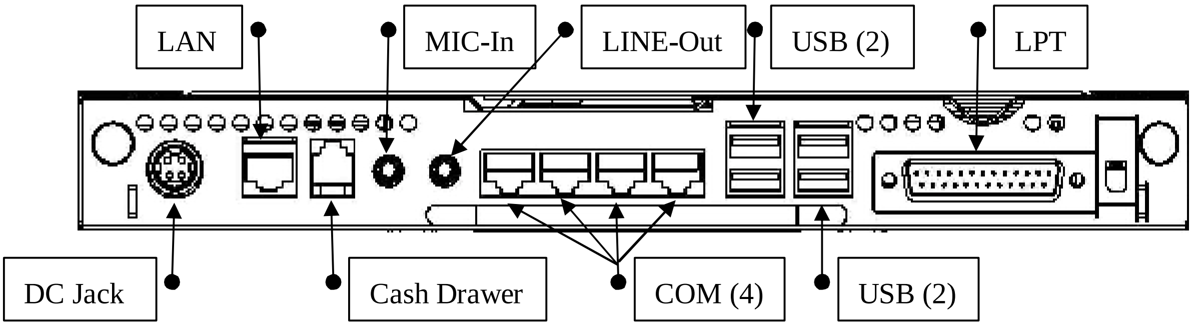
2.2. Rear View



2.3. Button Cover View



2.4. I/O Function



3. Specification

LCD Size	**15” TFT LCD**	**17” TFT LCD**
Mainboard	B78	
CPU Support	Intel Celeron M1.3 / 1.5GHz; Pentium M1.4G / 1.8GHz; ULV 800MHz / 1.0GHz	
Chipset	Intel 852GM and ICH4 FSB 400Mhz	
System Memory	2 x DDR SO-DIMM sockets, up to 2GB	
Graphic Memory	Shared system memory 8~64MB	
BIOS	Phoenix Award BIOS	
LCD Touch Panel		
Brightness	350 cd/㎡	420 cd/㎡
Maximal Resolution	1024 x 768	1280 x 1024
Touch Screen Type	Resistive type, SAW type optional	
Storage		
HDD	2.5” Slim HDD bay	
Flash Memory	Optional C.F. slot (either one option between HDD and CF card)	
Expansion		
Mini-PCI Socket	1 x mini-PCI slot	
Wireless LAN		
WLAN module	Optional mini-PCI wireless LAN module support up to IEEE 802.11 a/b/g	
Antenna	Main & Auxiliary	
External I/O Ports		
Front I/O		
USB	4 ports (V2.0)	
Serial / COM	4 x COM ports RJ-45 connectors (COM1 standard RS-232; COM2 RS232/422/485 selectable by jumper; COM3 & COM4 pin 9 with 5V or 12V power by jumper)	
Parallel	1 x D-sub 25-pin connector	
LAN (10/100)	1 x RJ45	
Cash Drawer	1 x RJ-11 (12V or 19V)	
DC Jack	1 x DC Jack Latch type	

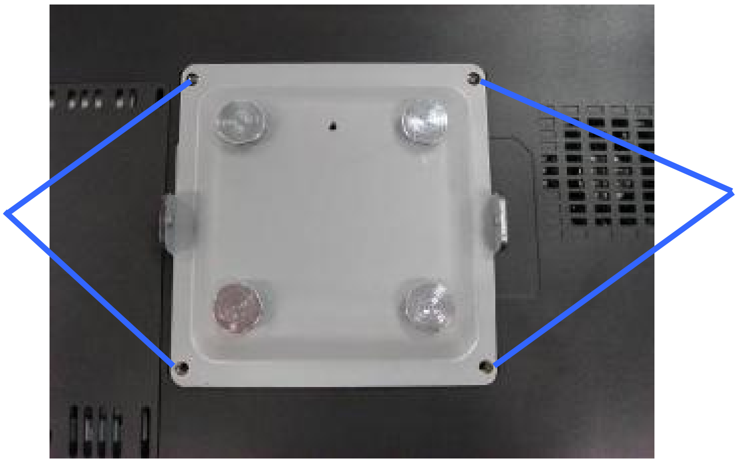
Audio Jack	1 x Line-out, 1 x MIC-in	
Internal Interface		
USB	2	
COM	2	
2 nd VGA	10-pin (2 x 5) header for CRT	
Control/Indicator		
Power Button	1	
Indicator LED	1 x power LED	
IrDA	1	
Motion Sensor	1	
Volume Control Button	Up & Down	
Brightness Control Button	Up & Down	
Power		
Power Adapter	External DC 19V, 90W	
Peripherals		
MSR	Side mount ISO 3-tracks or JIS I&II module (Optional)	
Scanner	Laser scanner (Optional)	
Environment		
EMC & Safety	FCC, Class A, CE, LVD	
Operating Temperature	0℃ ~ 40℃ (32°F ~ 104°F)	
Storage	-20℃ ~ 60℃ (-4°F ~ 140°F)	
Operating Humidity	5% - 95% RH non condensing	
Storage Humidity	5% - 95% RH non condensing	
Dust & Water Resistance	NEMA 3 / IP54 (Front Bezel)	
Dimensions (W x D x H)	386 x 330 x 65 mm / 15.2” x 13” x 2.6”	420 x372 x 68 mm / 16.5” x 14.6” x 2.7”
Weight	5.5kg / 12.1lbs	7.0kg / 15.4 Ibs
Mounting	75 mm x 75 mm & 100 mm x 100mm Standard VESA mounting holes	
OS Support	WinXP Pro, Xpe, WEPOS, Windows NT 4.0 / 2000	

·This specification is subject to change without prior notice.

4. Installing External Devices

4.1. Wall Mount Kit

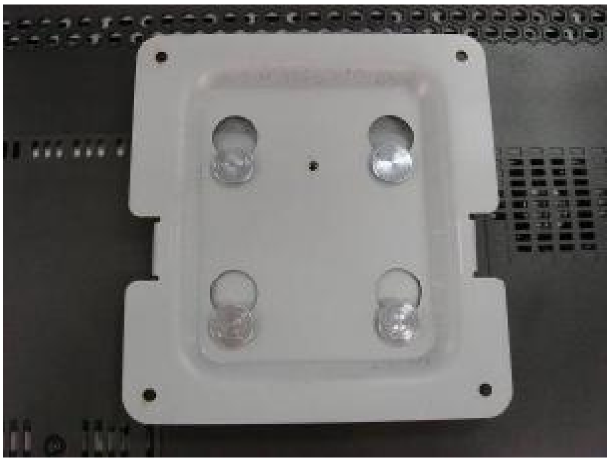
1. Put the wall mount kit bracket on the rear bezel. Tighten the screws (4).



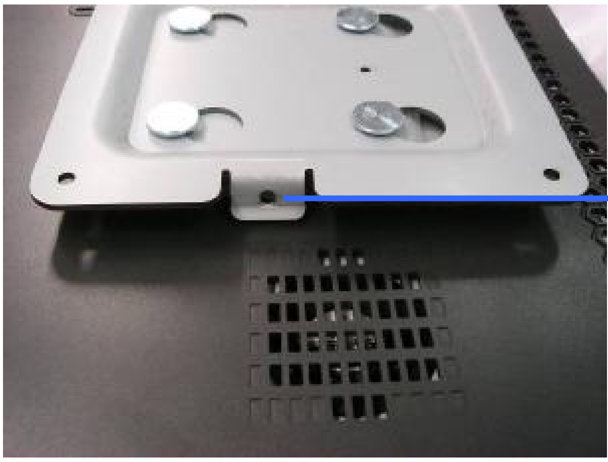
2. Tighten the screws (4) of the wall mount kit holder on the wall.

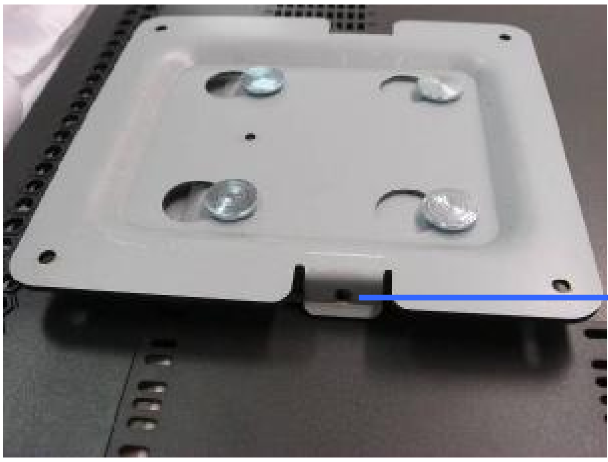


3. Hang the system on the wall mount kit holder.



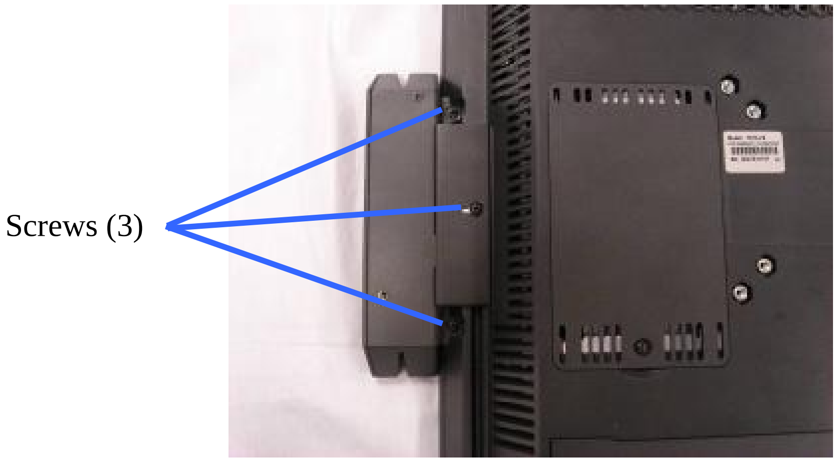
4. Tighten the screw (2).



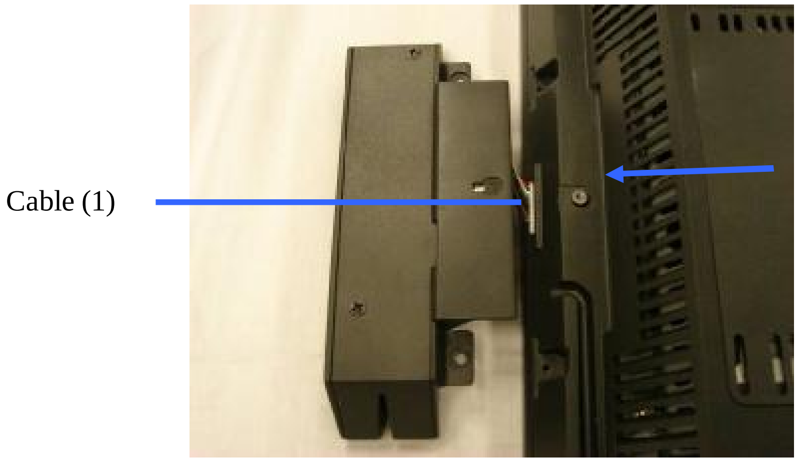


4.2. MSR

1. Remove the screws (3).



2. Slide the MSR cover out and disconnect the cable (1).



5. Jumper Setting

5.1. Main Board Jumper Setting

1. CMOS Operation Mode

Function	JP8
CMOS Normal	◎N/C
CMOS Reset	1-2

To clear the CMOS:

1) Remove AC power from the unit.
2) Open the cabinet.
3) Change the JP8 jumper setting from N/C to 1-2.
4) Wait 1 minute.
5) Change the JP8 jumper setting back to N/C.
6) Close the cabinet.
7) Apply AC power and continue.

2. Power Mode Setting

Function	JP6
ATX Power	◎N/C
AT Power	1-2

3. Cash Drawer Power Setting

Voltage	JP4
+12V	1-2
+24V (Not available)	3-4
+19V	◎5-6

4. COM3 – 4 Power Setting

Function	JP3
COM3 PIN10_RI	◎1-2
COM3 PIN10_+5V	3-4
COM3 PIN10_+12V	5-6
COM4 PIN10_RI	◎7-8
COM4 PIN10_+5V	9-10
COM4 PIN10_+12V	11-12

5. Card Reader Setting

Function	◎Ducking	On Board
JP11 (1-2)	N/C	1-2
JP11 (3-4)	N/C	3-4

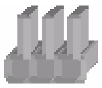
6. LCD ID Setting

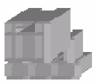
Panel Number	Resolution	LVDS		JP7			
		Bits	Channel	1-2	3-4	5-6	7-8
0	640 x 480	18	Single	SHORT	SHORT	SHORT	SHORT
1	800 x 600	18	Single	SHORT	SHORT	SHORT	OPEN
2	1024 x 768	18	Single	SHORT	SHORT	OPEN	SHORT
3	1280 x 1024	24	Dual	SHORT	SHORT	OPEN	OPEN
4	1024 x 768	24	Single	SHORT	OPEN	SHORT	SHORT
5	800 x 600	24	Single	SHORT	OPEN	SHORT	OPEN

7. COM2 RS232 / 485 / 422 Setting

Function	RS232	RS485	RS422
JP9 (1-2)	V		
JP9 (3-4)	V		
JP9 (4-6)		V	
JP9 (5-7)	V		
JP9 (7-8)		V	
JP9 (9-10)			V
JP10 (1-2)	V		
JP10 (3-4)		V	
JP10 (5-6)			V
JP10 (7-8)			V
JP10 (9-10)			V
JP10 (11-12)			V

Note: OPEN SHORT





6. Driver Installation

6.1. Driver List

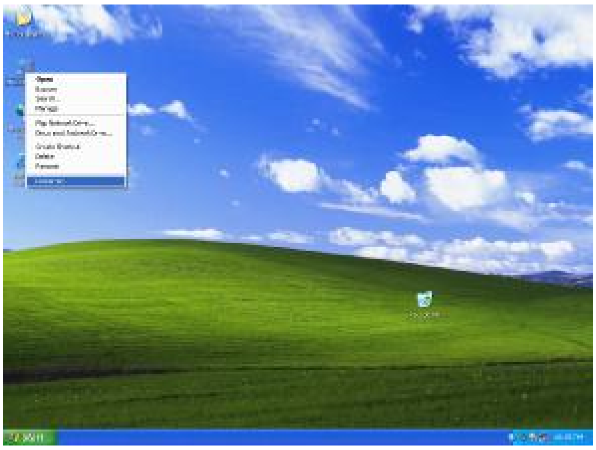
Folder/File	File Description
<CD>:\COMMON\INTEL\USB 20	USB 2.0 Driver
<CD>:\COMMON\INTEL\VGA\i85x	VGA Driver
<CD>:\COMMON\Elo_Touch	SAW Touch Driver
<CD>:\COMMON\POS_Touch	Resistive Touch Driver
<CD>:\COMMON\Ac97_codec\Realtek\ALC202A	Audio Driver
<CD>:\COMMON\Lan_driver\R8139_810x	10/100Mb LAN Driver
<CD>:\COMMON\Wireless_LAN\802.11g\Intel\Win2K_XP	Intel (R) PROSet Driver

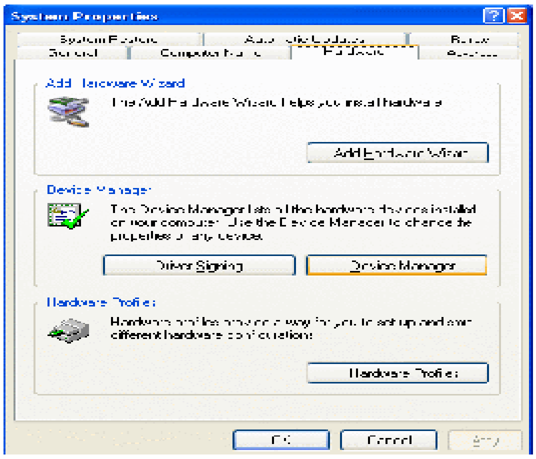
-The following procedures are for Windows 2000/XP, other platforms are similar.

6.2. USB 2.0 Driver Installation

OS Requirements

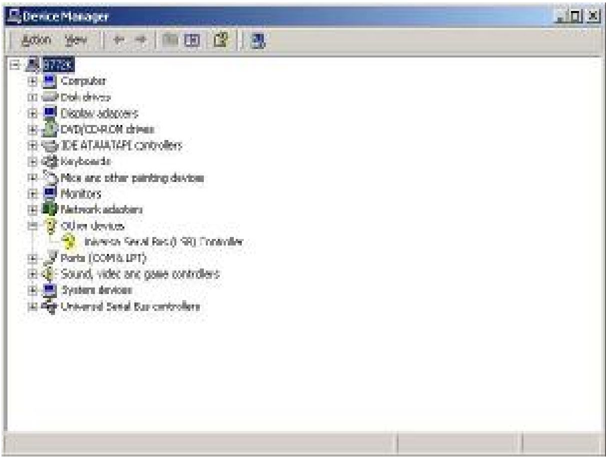
OS	USB 2.0 requirements
Windows XP	USB 2.0 drivers are provided in Service Pack 1 (SP1) for Windows XP, which is available through Windows Update.
Windows 2000	USB 2.0 drivers are available through Windows Update or Service Pack 4.
Windows 98SE/Me	USB 2.0 drivers are available on the Intel developer site.
Windows 98 (Retail)	Developers and OEMs should contact Orange Ware. For end-users, if your device does not ship with Windows 98 drivers, contact your device or system manufacturer. If USB 2.0 drivers are not available, your device will operate at USB 1.1 speeds
Linux	USB 2.0 support is available in kernel 2.4.19 or later development kernels, or in the 2.4.19 or later production kernel. More information.





a. Right click My Computer on the windows desktop and select "properties"

b. Select "Hardware" à "Device Manager" on system properties.





c. Select "Other Devices" à "Universal Serial Bus (USB) Controller" à "Properties" on Device Manager.





d. Select "Device" à "Update Driver…".

e. Click the "Next" button on the welcome window.



f. Select “Search for a suitable…”and click the “Next” button on the Install Hardware Device Drivers window.



g. Select “Specify a location” and click the “Next” button on the Locate Driver Files window.

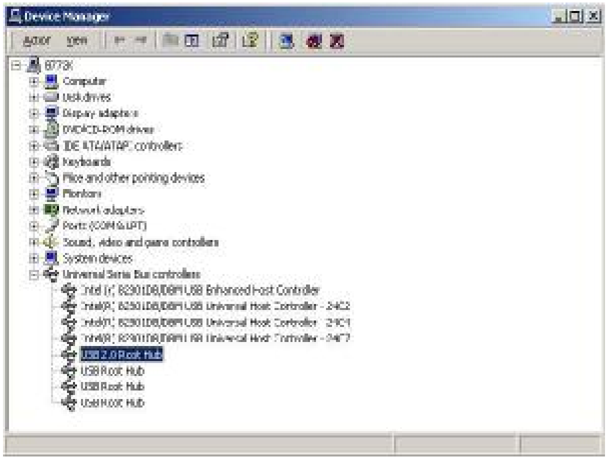


h. Press “Browse” to select driver and then click the “OK” button to next page.



i. Click the “Next” button on Driver Files Search Results window.





j. Click the "Finish" button to complete this process.

k. Finished.

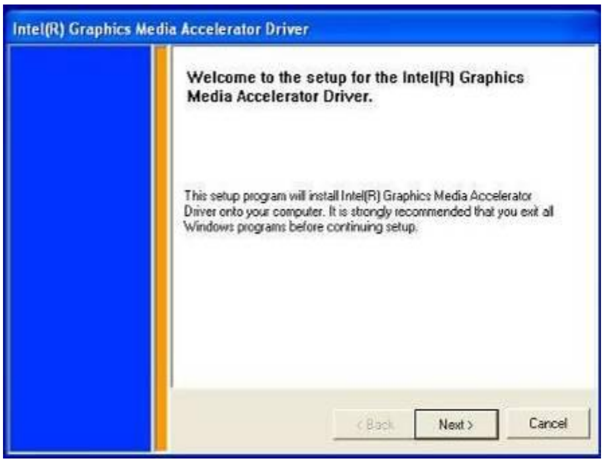
6.3. VGA Driver Installation





a. Double click "win2k_xp147" on the My Computer window.

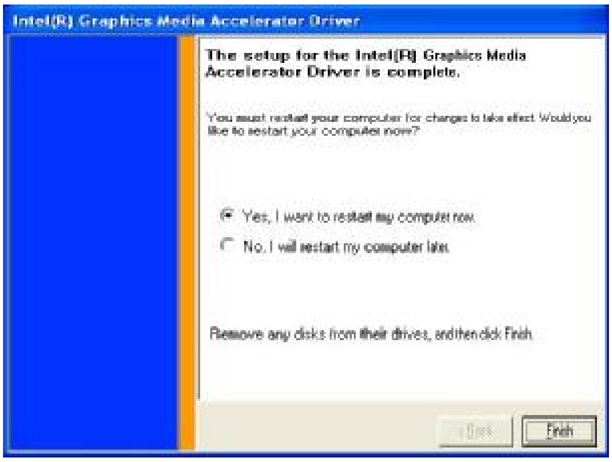
b. Click the "Next" button on the Welcome window.



c. Click the ”Next” button on the Welcome window.

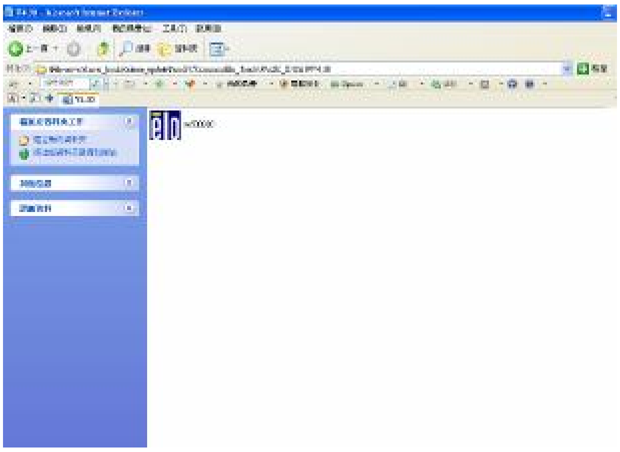


d. Click the ”Yes” button on the License Agreement window.



e. Click the ”Finish” button and restart your system.

6.4. SAW Touch Driver Installation



a. Click ”sw500930” on the My computer window.



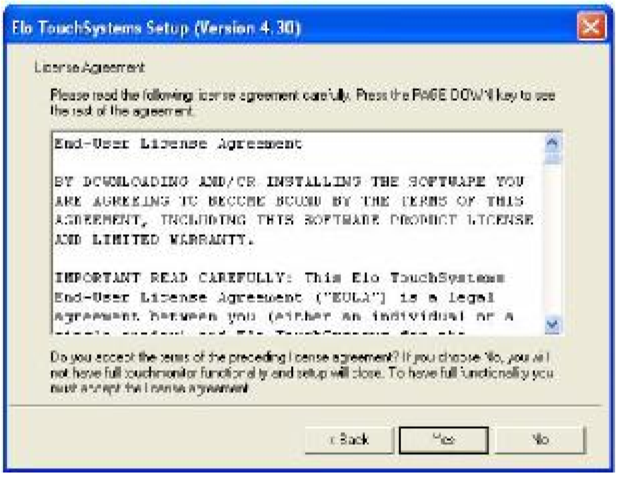
b. Click the “OK” button on the Welcome window.



c. Click the ”Unzip” button on the WinZip Self-Extractor window.



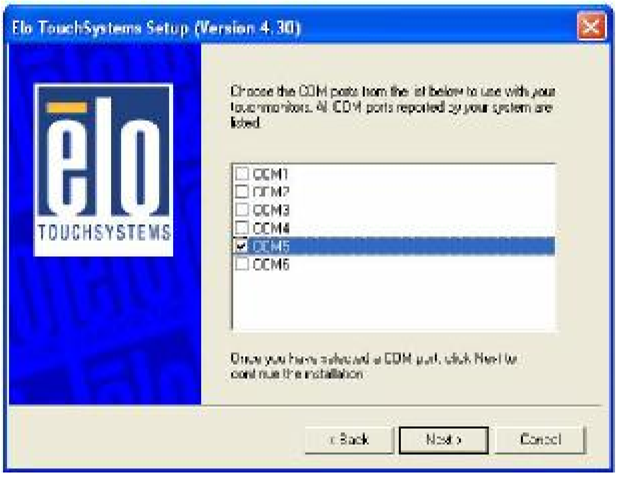
d. Select “Install Serial Touchscreen Drivers” and then click the “Next” button on the Welcome window.

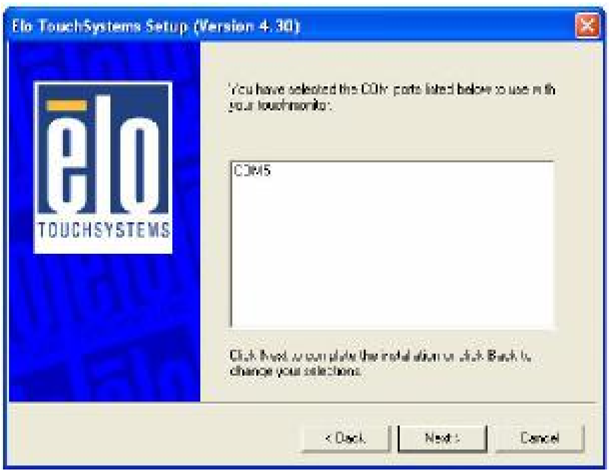




e. Click the "Yes" button on the License Agreement window.

f. Click the "Next" button on the on the "Select the COM ports…" window.





g. Select "COM5" and click the "Next" button on the Choose the COM ports… window.

h. Click the "Next" button on the You have selected the COM ports…window.



i. Click the “Finish” button on the Setup Complete window



j. Click the “Yes” button and restart your system.

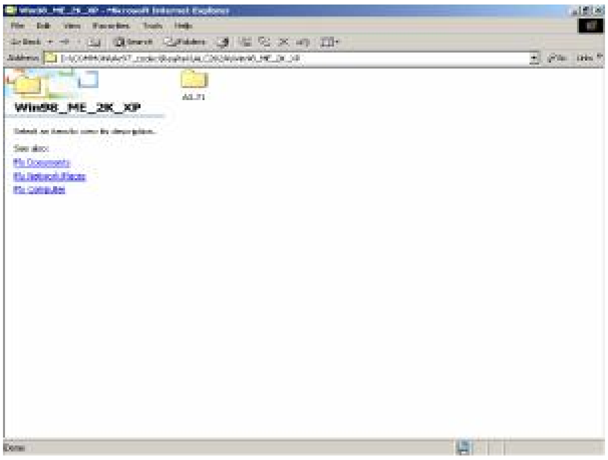


k. After the computer has restarted, click “Align” on the Elo Touchscreen Properties window.

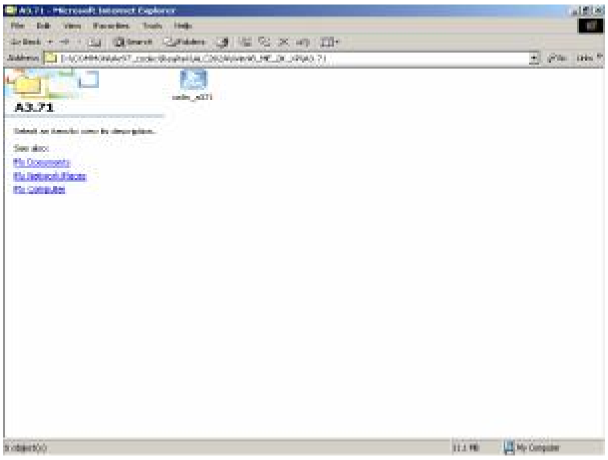


l. Follow the instructions on the screen to calibrate the touch panel.

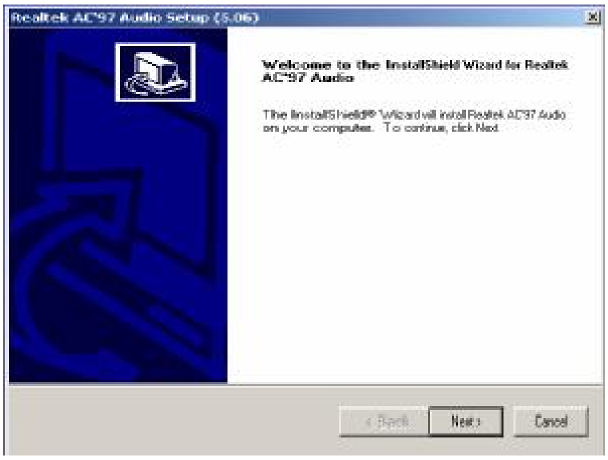
6.5. Audio Driver Installation



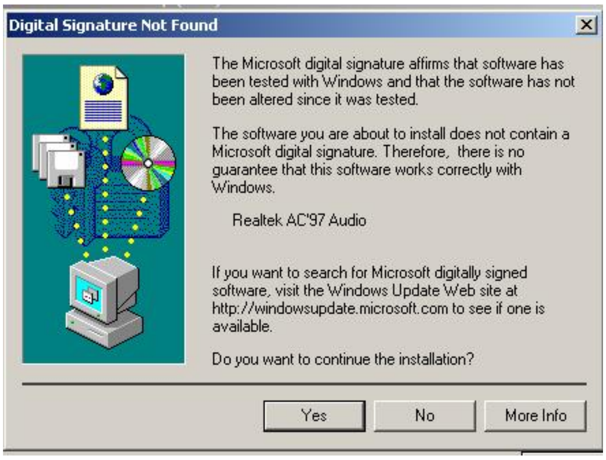
a. Click “A3.71” on the My Computer window.



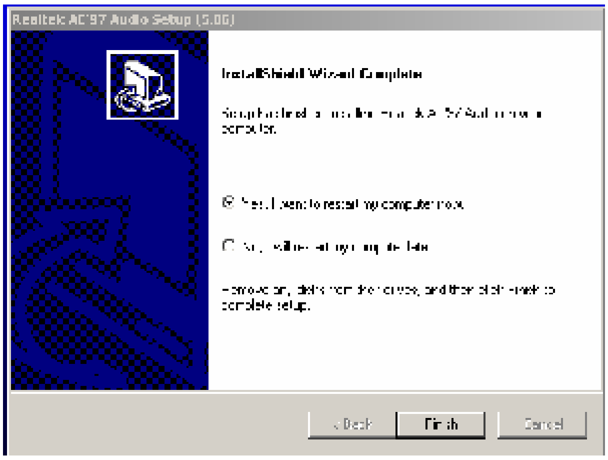
b. Double click “wdm_a371” on the My Computer window.



c. Click “Next” button on the Realtek AC’97 Audio Setup window.

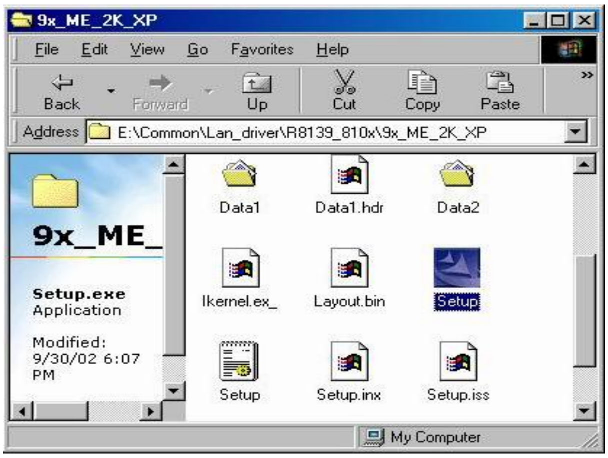


d. Click “Yes” button on the Digital Signature Not Found window.

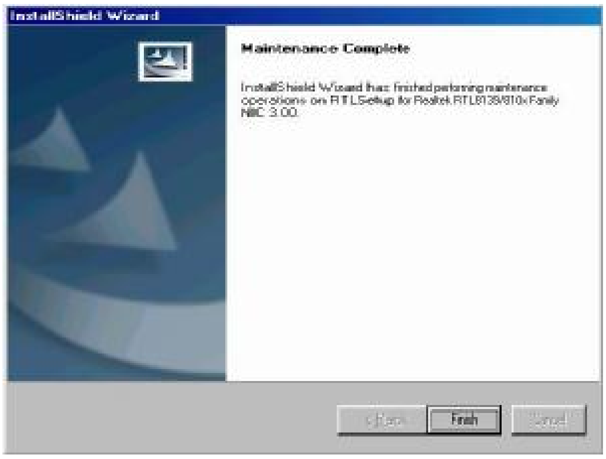


e. Click “Finish” button on the Realtek AC’97 Audio Setup window.

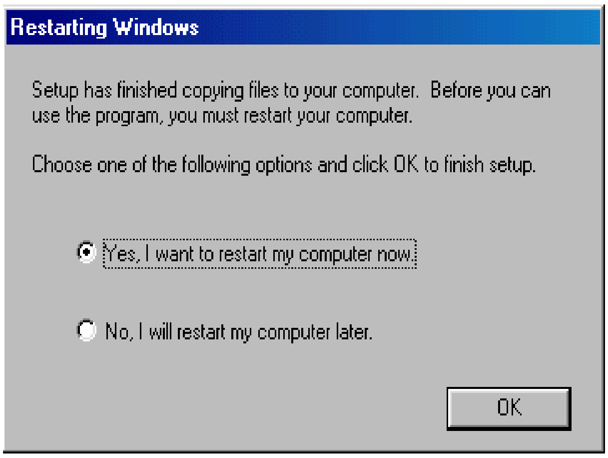
6.6. LAN Driver Installation



a. Double click the ”Setup” on the “My Computer” window.

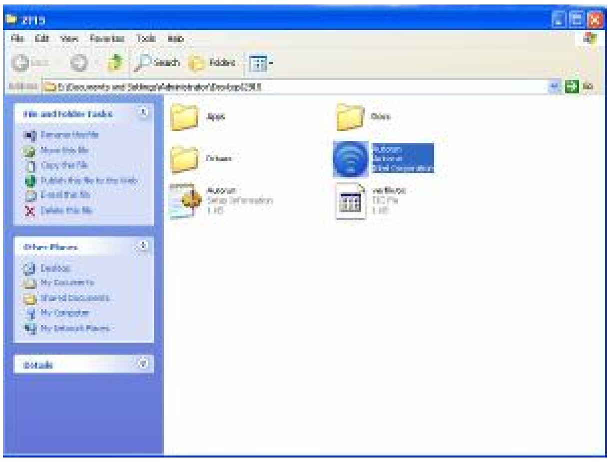


b. Click the “Finish” button on the “Maintenance complete” window.



c. Click the ”OK” button and restart your system.

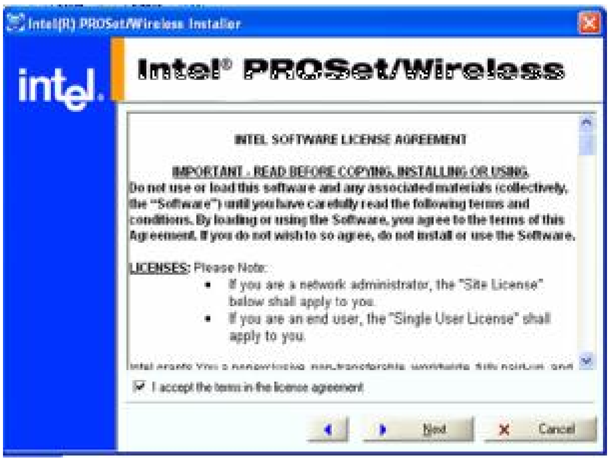
6.7. Intel (R) PROSet Driver Installation



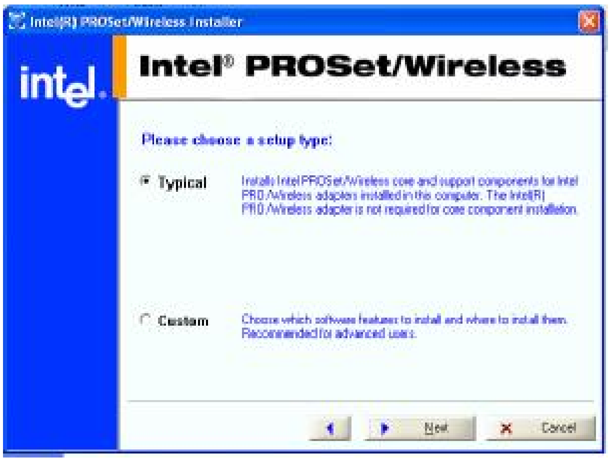


a. Select “Autorun Intel Corporation” on the “My Computer” window.

b. Select “Install Software” on the “Intel (R) PROSet/Wireless Installer” window.



c. Select “I accept the terms in the license agreement” and click the “Next” button on the “Intel (R) PROSet/Wireless Installer” window.



d. Select “Typical” and click the “Next” button on the “Intel (R) PROSet/Wireless Installer” window.



e. Click the “OK” button on the “Intel (R) Pro Installer” window.



f. Click the “OK” button on the “Intel (R) PROSet/Wireless Installer” window.

7. BIOS Updating Procedure

Introduction

This chapter discusses procedures on how to update the terminal BIOS by using the CD-ROM drive. The software is distributed on bootable CD-ROM media.

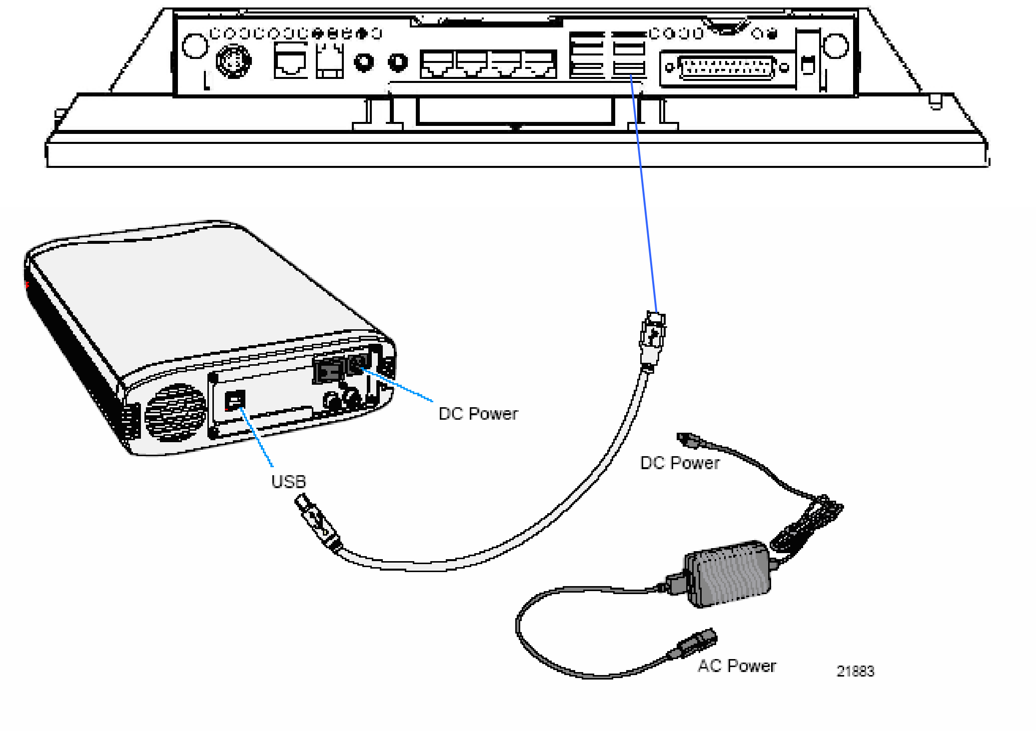
Since the K870 series does not have an internal CD-ROM drive, the terminal supports the following external CD-ROM drive.

• Teac USB CD-ROM Drive

BIOS Update

Connecting an External USB CD-ROM Drive

1. Connect the external USB CD-ROM drive to a USB connector on the terminal.



2. Connect the Power Supply to the DC Power connector on the CD-ROM and to an AC outlet.
3. Apply power to the CD-ROM drive (switch on the back).

Updating Procedures

1. Connect a PS/2 Keyboard to the terminal.
2. Apply power to the terminal.
3. Press [DEL] during boot to enter Setup.
4. At the Setup Utility menu, select Advanced BIOS Features.
5. Set the First Boot Device.
   • Select USB-CDROM.
6. Press [Esc] to return to the Setup Utility menu.
7. Select Save and Exit Setup.
8. Insert the media containing the BIOS update software.
9. Follow the screen prompts on the client to update the BIOS. You can select two methods to run the update program.
   • Automatic BIOS Update – update process runs unattended
   Note: You will see a prompt for terminal model and serial number information if the program detects invalid information in the current BIOS, or if you are replacing the processor board, in which case there is not model/serial number information in the BIOS.
   Important: Model/Serial Number is mandatory.
   • Interactive BIOS Update – permits you to input/replace the model/serial number information that is stored in the BIOS.
   Note: Model/Serial number data that is currently stored in the BIOS is displayed during power up.
10. You should see a green window, indicating a successful update.
11. Disconnect the keyboard and remove the media before the system reboots.
    Note: If the keyboard is disconnected while the terminal is powered on the MSR will no longer function. You must power cycle (cold boot) the terminal to reset the MSR function.

8. Default BIOS Setting

Entering Setup

1. Connect an alphanumeric USB keyboard to the terminal.
2. Apply power to the terminal.
3. At the prompt at the bottom of the screen press [Del] to enter setup.

BIOS Default Values

Standard CMOS Features

System Date	(variable)
System Time	(variable)
Video	[EGA/VGA]
Halt On	[All , But Keyboard]

Advanced BIOS Feature

Quick Power On Self Test	[Enabled]
First Boot Device	[USB-FDD]
Second Boot Device	[HDD-0]
Third Boot Device	[CDROM]
Boot Other Device	[Disabled]
Boot Up NumLock Status	[On]
Typematic Rate Setting	[Enabled]
Typematic Rate (Chars / Sec)	[30]
Typematic Delay (Msec)	[250]
Security Option	[Setup]
APIC Mode	[Disabled]
* MPS Version Control For OS 1.4	
HDD S.M.A.R.T. Capability	[Disabled]

Advanced Chipset Features

DRAM Data Integrity Mode	[Non-ECC]
AGP Aperture Size (MB)	[64]
On-Chip VGA	[Enabled]
On-Chip Frame Buffer Size	[32MB]

Integrated Peripherals

Onboard LAN Boot ROM	[Disabled]
OnChip IDE Device	
OnChip Primary PCI ID	[Enabled]
IDE Primary Master PIO	[Auto]
IDE Primary Slave PIO	[Auto]
Primary IDE Max. UDMA	[Auto]
IDE Primary Master UDMA	[Auto]
IDE Primary Slave UDMA	[Auto]
On-Chip Secondary PCI IDE	[Enabled]
IDE Secondary Master PIO	[Auto]
IDE Secondary Slave PIO	[Auto]
Secondary IDE Max. UDMA UDMA 33	
IDE Secondary Master UDMA	[Auto]
IDE Secondary Slave UDMA	[Auto]
Onboard Device	
USB Controller	[Enabled]
USB 2.0 Controller	[Enabled]
AC97 Audio	[Auto]
SuperIO Device	
Serial Port 1	[3F8]
Serial Port 1 Use IRQ	[IRQ4]
Serial Port 2	[2F8]
Serial Port 2 Use IRQ	[IRQ3]
UART Mode Select	[Normal]
RxD , TxD Active	[Hi , Lo]
IR Transmission Delay	[Enabled]
UR2 Duplex Mode	[Half]
Use IR Pins	[IR-Rx2Tx2]
Parallel Port 1	[378/IRQ7]
Parallel Port Mode	[SPP]
EPP Mode Select	[EPP1.7]
ECP Mode Use DMA	[3]
Serial Port 3	[3E8]
Serial Port 3 USE IRQ	[IRQ10]
Serial Port 4	[2E8]

X Serial Port 4 USE IRQ	IRQ10
Serial Port 5	[4F8]
X Serial Port 5 USE IRQ	IRQ10
Serial Port 2 Use IRQ	[IRQ3]
UART Mode Select	[Normal]
RxD , TxD Active	[Hi , Lo]
IR Transmission Delay	[Enabled]
UR2 Duplex Mode	[Half]
Use IR Pins	[IR-Rx2Tx2]
Parallel Port 1	[378 / IRQ7]
Parallel Port Mode	[SPP]
EPP Mode Select	[EPP1.7]
ECP Mode Use DMA	[3]
Serial Port 3	[3E8]
Serial Port 3 Use IRQ	[IRQ10]
Serial Port 4	[2E8]
Serial Port 4 Use IRQ	[IRQ10]
Serial Port 5	[4F8]
Serial Port 5 Use IRQ	[IRQ10]
Serial Port 6	[4E8]
Serial Port 6 Use IRQ	[IRQ10]
Serial Port 3-6 IRQ Share	[Enabled]

Power Management Setup

Power – Supply Type	[ATX]
Power On Control	[Press Enter]
Soft-Off by PWR-BTTN	[Delay 4 Sec.]
PWRON After PWR-Fail	[Off]
Power On by PCI PME/LAN	[Disabled]
Power On by Ring	[Disabled]
Resume by Alarm	[Disabled]
ACPI Function	[Enabled]
Power Management	[User Define]
Video Off Method	[Blank Screen]
Video Off In Suspend	[Yes]
Suspend Type	[Stop Grant]
MODEM Use IRQ	[NA]

Suspend Mode	[Disabled]
HDD Power Down	[Disabled]
Primary IDE 0	[Disabled]
Primary IDE 1	[Disabled]
Secondary IDE 0	[Disabled]
Secondary IDE 1	[Disabled]
FDD, COM, LPT Port	[Disabled]
PCI PIRQ	[Disabled]

PnP/PCI Configurations

PNP OS Installed	[No]
Reset Configuration Data	[Disabled]
Resources Controlled By	[Auto(ESCD)]
X IRQ Resources	Press Enter
INT Pin 1 Assignment	[Auto]
INT Pin 2 Assignment	[Auto]
INT Pin 3 Assignment	[Auto]
INT Pin 4 Assignment	[Auto]
INT Pin 5 Assignment	[Auto]
INT Pin 6 Assignment	[Auto]
INT Pin 7 Assignment	[Auto]
INT Pin 8 Assignment	[Auto]